

PATCH TEST REPORT ECS System Integration and Test				
Patch ID: Patch_7.02_DPL_HEG.01B		Patch Installation Date: 9/28/04 Location/Mode(s): PVC/OPS		Lead Engineer: Jack Tsou
NCR IDs/Name (If not shown below): 1. 37721- Support Polar Stereographic projection for swath data 2. 38645 - Incorrect Subseted Area When Using “no conversion” Subsetter Option 3. 39994 - Support UTM projection for swath data 4. 40262 - Parameter files not created correctly for MISR Level 2 data sets 5. 40574 - 7.00: Shopping Cart Limit Should Be Configurable 6. 40802 - MOD11_L2 reprojection/subsetting to Geographic - pixels are not square 7. 40944 - Cleanup temp files		Patch Footprint: (Affected subsystems) DPL, HEG		
Test Objectives (Functional/Performance/Regression/Fault Recovery)/New Functionality/Ops Concept(s): The test objective is to confirm that all of the NCRs delivered with this patch are verified.				
Test Location/Modes/Tools: PVC/OPS Mode Tools for evaluating the product images: XV, HDFView, and ENVI		Test Data: MOD10_L2, MOD11_L2, MOD29, MISR L2, AST_L1B, MOD021KM, MOD09A1, MIL2ASAE, MIL2TCAL, MOD09GHK		
Personnel Required Development POC: K. Cockerill NCR Submitter(s) POC: C. Pradera, K. Carr, G. Evans, M. Goetz, C. Gacke		Other Test Requirements (Personnel, etc.) T. Roegner, T. Fu, S. Ni		
Required Completion Date: 9/30/04 Planned Completion Time/Date: 9/30/04				
Subsystem tailored Regression Testing:				
Scenario/Test List		Pass/Fail/Not Tested	Comments	
NCR#	Inputs/Actions:	Outputs/Expected Results:	Pass/Fail/Not Tested	Comments:
37721	Polar Stereographic Projection: In the DPL Web Access GUI we placed several orders with ASTER_L1B.003, MOD29.004, and MOD021KM.004 granule. These orders were all projected to the PS projection. Look at the attached spreadsheet to see the runs made with the PS projection on swath granules.	We ran the resulting files with listgeo and it showed that the PS projection was used. We then took the images up to the biometrics lab and looked at them with ENVI. The images produced were correct.	P	
38645	Incorrect Subset Area when using “no conversion” subsetter option. Repeated the same “no projection” and in tif format request that the developer used on the same granule file. Also the same spatial	Compared the Data Pool output for surface reflectance band 1 with the file produced by the developer and found them to be identical.	P	

	coordinates were used. See the verification enclosure for the NCR for more specific details.			
39994	UTM Projection: In the DPL web access GUI we placed several orders with ASTER_L1B.003, MOD29.004, and MOD021KM.004 granules. These orders were all projected to the UTM projection. Look at the attached spreadsheet to see the runs made with the UTM projection on swath granules.	We ran the resulting files with listgeo and it showed that the PS projection was used. We then took the images up to the biometrics lab and looked at them with ENVI. The images produced were correct.	P	
40262	MISR Level 2: Parameter files not created correctly for MISR Level 2 data sets Input: MIL2ASAE.001 and MIL2TCAL.001 Spatially set coordinates around Mt. Aetna that were within the granule (MIL2ASAE) and outside the granule (MIL2TCAL). See attached spreadsheet of runs associates with 40262.	For spatial subset requests outside the granule boundaries, a message was displayed on the Data Pool Web Access Order Status Page. For those inside, processing continued successful and finished in about 1 ½ hours. Spatial coordinates in the parameter file were no longer the ones for the whole granule.	P	
40574	Shopping Cart Limit: Test #1: Changed the cartLimit from 500 to 5 and added an extra space in the WebAccess.properties file. Bounced the tomcat. Performed a Web Access drill down by selecting Data Group/Data Set - MOOT/MOD28QC.1. Clicked on the 'Get the Granules' link. From the result page clicked on the cart icons for three granules. Test #2: Emptied the shopping cart. From the result page clicked on the cart icons for five granules successfully. Attempted to click on the cart icon for the sixth granule.	Test #1: Viewed the cart, three granule were shown. Test #2: The following error message displayed: "Your shopping cart is full (the cart can only hold 5 granules). The process of adding granule(s) to the cart was not completed. You must either remove data from the shopping cart or submit an order using the existing contents in the cart." Viewed the cart, five granules were shown.	P	
40802	Square Pixels: In the DPL Web Access GUI we placed several orders with ATER_L1B.003 and MOD29.004 granules. The orders placed were converting a granule to geotiff/hdfeos format and projecting them to Geographic. Look at the attached spreadsheet to see the runs made.	We checked the parameter files of the resulting orders and the pixel sizes for X and Y were equal. This is correct.	P	
40944	Cleanup Temp Files: Made many orders with the DPL Web Access GUI.	Checked the .tempfiles directory after each order finishes and found that all temp files were removed.	P	

List of Artifacts/Attachments (Procedures/data/etc.):

HEG converter spreadsheet listing tests with format and projections and spreadsheet listing actual files for input granules are available for review.

Signature of Lead Engineer:

Jack C. Tsou /s/

Completion Date:

09/30/04